19. (Twice Amended) A method of generating multiple images of a patient using an imaging device comprising the following steps:

introducing a contrast material into said patient;

loading a plurality of parameter sets into said imaging device, each of the plurality containing at least one parameter that corresponds to one of said multiple images;

retrieving a first parameter set from the plurality of parameter sets;

collecting first image data of a first view of said patient according to the first parameter set;

stopping the collecting first image data for a delay period;

retrieving a second parameter set from the plurality of parameter sets;

collecting second image data of a second view of said patient according to the second parameter set;

followed by the step of:

processing the first and second image data to produce said multiple images of said patient.

29. (Twice Amended) A method of generating multiple images of a patient using an imaging device comprising the following steps:

introducing a contrast material into said patient;

loading a plurality of parameter sets into said imaging device, each of the plurality containing at least one parameter that corresponds to one of said multiple images;

indexing said imaging device to a first parameter set in the plurality;

collecting first image data;

stopping the collecting first image data for a delay period;

sequentially indexing said imaging device to each parameter set in the plurality, collecting further image data for each parameter set; [and]

followed by the step of:

processing the first and further image data to produce said multiple images of said patient.

35. (Twice Amended) A method of generating multiple images of a patient using an imaging device comprising the following steps:

loading a plurality of parameter sets into said imaging device, each of the plurality containing at least one parameter that corresponds to one of said multiple images;

collecting a first set of image data of the patient corresponding to a first one of said parameter sets;

retaining said first set of image data during a delay period;

collecting a second set of image data of the patient corresponding to a second one of said parameter sets following the delay period;

followed by the step of:

processing said first set of image data and said second set of image data to produce said multiple images of said patient.